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PRODUCT NAME Rebaudioside D

PART NUMBER 00018229

STANDARD TYPE Primary (P)

LOT NUMBER 00018229-511

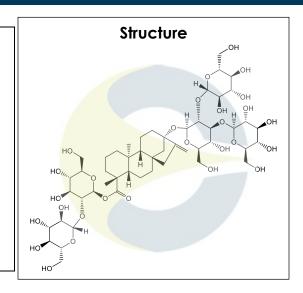
REPORT NUMBER CDXA-RSS-5812-03

SAMPLE NUMBER CDXA-13-6073

DATE OF SAMPLE 09/06/2013

DATE OF RE-EVALUATION 02/13/2018 (1st); 01/10/2022 (2nd)

DATE OF REPORT 01/28/2022



CHEMICAL NAMES (4α) -13-[(O- β -D-Glucopyranosyl-(1 \rightarrow 2)-O-[β -D-glucopyranosyl-(1 \rightarrow 3)]- β -D-

glucopyranosyl)oxy]-kaur-16-en-18-oic acid 2-O-β-D-glucopyranosyl-β-D-

glucopyranosyl ester

CHEMICAL FORMULA C₅₀H₈₀O₂₈

MOLECULAR WEIGHT (MW) 1129.15

CHEMICAL FAMILY Diterpene glycosides

CAS NUMBER [63279-13-0]

EC#(EINECS) 817-154-7

RTECS NZ8174860

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	≥ 85%	89.0%	
HPLC	0.700.10.2.METH86	≥ 90%	95.5% Conforms to structure	
NMR	99.1-CD-1.0-000122	Conforms to structure		
Mass Spectrum	Direct Infusion, ESI (-)	Conforms	Conforms	
Residual Solvent	99.1-CD-9.0-000115	NA	EtOH - 0.4%	
Water	Water 0.700.12.37 Appearance NA		6.4% White powder	
Appearance				

ADJUSTED PURITY: 89.0% IS BASED ON (100 - 0.4 SOLVENTS - 6.4 WATER) X 95.5% HPLC







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STORAGE CONDITIONS

STORAGE -20 °C in a dry place.

EXPIRATION DATE 01/2027 under the above conditions.

ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD), AGILENT 6510 QTOF

COLUMN Phenomenex Synergi Hydro-RP 250 x 4.6 mm, 4 μm particle size

MOBILE PHASE A - Ultrapure water, B - Acetonitrile;

Isocratic 20% B for 5 minutes, then increasing to 30% B over 10 minutes, then increasing to 35% B over 15 minutes, then increasing to 80% B over 10 minutes, then increasing to 90% B over 5 minutes, then isocratic at 90% B for 5 minutes. Decrease to 20% B over 1 minute.

COLUMN TEMP. 60 °C

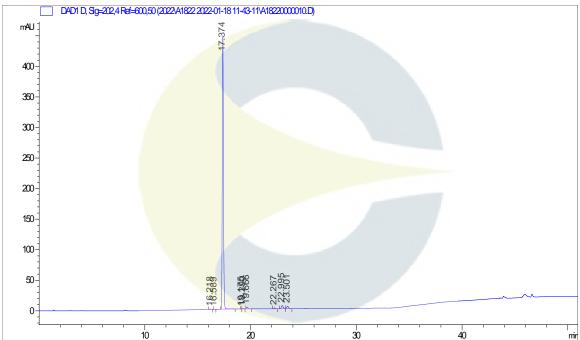
FLOW RATE 1.0 mL/minute

INJECTION VOL. $10.0 \mu L$

INJECTION CONC. 1.0 mg/mL in 7:3 Water:ACN

DETECTION $202 \pm 2 \text{ nm}$

HPLC CHROMATOGRAM OF REBAUDIOSIDE D (CDXA-13-6073)



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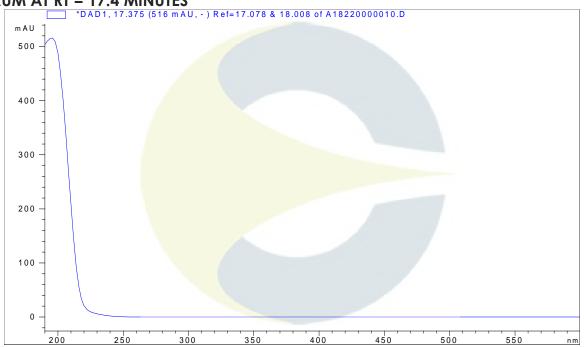




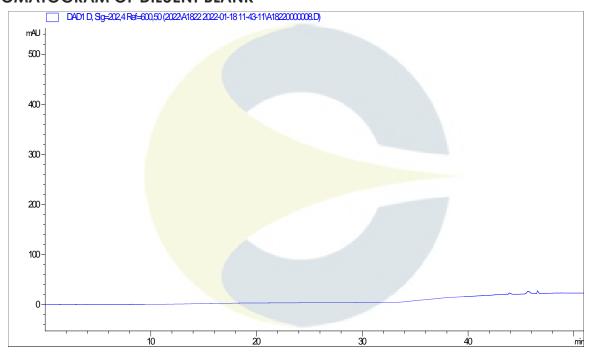
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UV SPECTRUM AT RT = 17.4 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





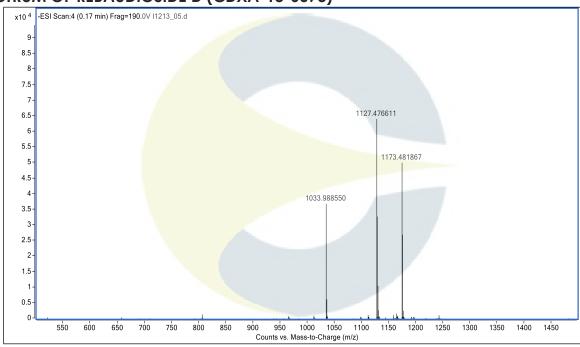




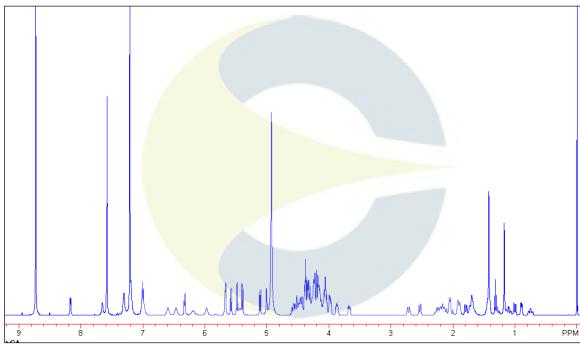
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MASS SPECTRUM OF REBAUDIOSIDE D (CDXA-13-6073)



¹H-NMR SPECTRUM OF REBAUDIOSIDE D (CDXA-13-6073) IN PYRIDINE-d₅





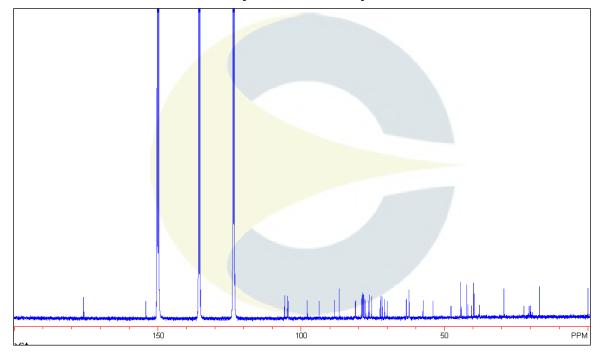




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13C-NMR SPECTRUM OF REBAUDIOSIDE D (CDXA-13-6073) IN PYRIDINE-d5





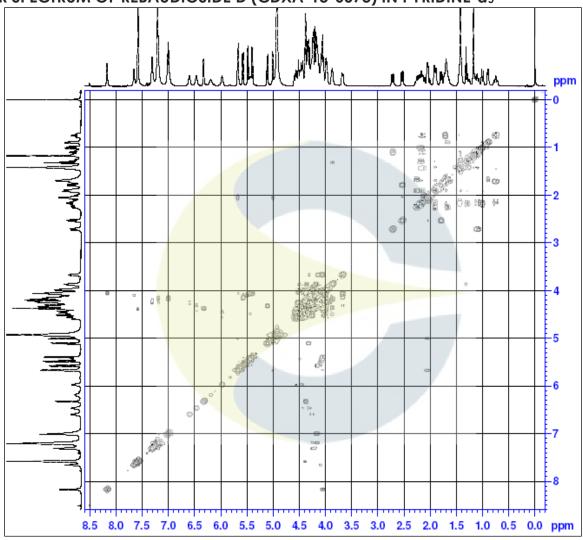




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REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	10/07/2013	New report
01	03/05/2018	Passed re-evaluation by HPLC, KF, and RS. Updated analytical results, analytical methods, chromatograms, and expiration date. Removed melting point.
02	10/12/2018	Revision; corrected analytical conditions.
03	01/28/2022	Passed re-evaluation by HPLC and KF. Updated analytical results, chromatograms, and expiration date. Updated RTECS and EC#.